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Relevance scale ☐ ☐ ☐ ☐ ☐1 [A holistic approach to service survivability](#)

Angelos D. Keromytis, Janak Parekh, Philip N. Gross, Gail Kaiser, Vishal Misra, Jason Nieh, Dan Rubenstein, Sal Stolfo

 October 2003 **Proceedings of the 2003 ACM workshop on Survivable and self-regenerative systems: in association with 10th ACM Conference on Computer and Communications Security**

Publisher: ACM Press

 Full text available: [pdf\(1.58 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present SABER (Survivability Architecture: Block, Evade, React), a proposed survivability architecture that blocks, evades and reacts to a variety of attacks by using several security and survivability mechanisms in an automated and coordinated fashion. Contrary to the ad hoc manner in which contemporary survivable systems are built-using isolated, independent security mechanisms such as firewalls, intrusion detection systems and software sandboxes-SABER integrates several different techno ...

Keywords: intrusion detection, overlay networks, survivability2 [Internet WORMS: past, present, and future: Access for sale: a new class of worm](#)

Stuart E. Schechter, Michael D. Smith

 October 2003 **Proceedings of the 2003 ACM workshop on Rapid malware WORM '03**

Publisher: ACM Press

 Full text available: [pdf\(95.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The damage inflicted by viruses and worms has been limited by the risks that come with the more lucrative payloads. The problem facing authors of self-reproducing malware is that monetizing each intrusion requires the author to risk communication with the infected system. Malware authors looking to minimize risk and maximize loot have been better off carefully targeting trojan horses at a few systems at a time. However, this could change if malware authors could infect a large number of systems ...

Keywords: cryptography, economics, incentives, security, threat modelling, virus, worm3 [Just sick about security](#)

Jeff Williams

 September 1996 **Proceedings of the 1996 workshop on New security paradigms**

Publisher: ACM Press

 Full text available: [pdf\(659.59 KB\)](#) Additional Information: [full citation](#), [index terms](#)

4 Intrusion detection and modeling: Design space and analysis of worm defense strategies



David Brumley, Li-Hao Liu, Pongsin Poosankam, Dawn Song
 March 2006 **Proceedings of the 2006 ACM Symposium on Information, computer and communications security ASIACCS '06**

Publisher: ACM Press

Full text available: pdf(723.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We give the first systematic investigation of the design space of worm defense system strategies. We accomplish this by providing a taxonomy of defense strategies by abstracting away implementation-dependent and approach-specific details and concentrating on the fundamental properties of each defense category. Our taxonomy and analysis reveals the key parameters for each strategy that determine its effectiveness. We provide a theoretical foundation for understanding how these parameters interact ...

Keywords: antibody, blacklisting, defense strategy analysis, local containment, proactive protection, worm propagation, worm taxonomy, worms

5 Data integrity: Web application security assessment by fault injection and behavior monitoring



Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai
 May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(4.53 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security assessment, web application testing

6 Security watch: Superscaled security



Rebecca T. Mercuri
 March 2004 **Communications of the ACM**, Volume 47 Issue 3

Publisher: ACM Press

Full text available: pdf(68.48 KB) html(19.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Exponential increases in computational speed, memory capacity, and bandwidth impose futuristic security demands and challenges.

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